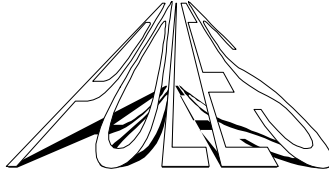




## ***Location and Survey***

### **Poles Program**



by

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#### **ABSTRACT**

The MDL Application POLES will automatically produce a pole data summary for the Right-of-Way Unit. The information in the summary comes from three different sources: 1) a design file developed in Photogrammetry Unit, 2) a pole data file put together by Location and Surveys, and 3) a GEOPAK job file constructed by the Roadway Design Unit. Output is an ASCII file that consists of pole numbers, stations-offsets, and owner information.

The application runs under Microstation and requires that GEOPAK also be running.

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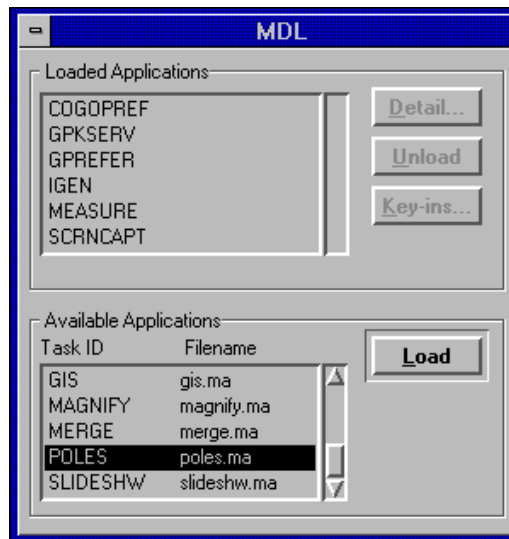
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## LOADING THE APPLICATION

To load the application for use in your MicroStation session either enter the command “**mdl load poles**” or chose MDL Applications under the USERS pull-down menu in the command window and then start the POLES application from the list (see Figure 1). If the executable is not the MDLAPPS directory, then you will need to specify the path to the directory in which the application is located.

Once the POLES application is loaded, the POLES Dialog Box is created and displayed on the screen.

FIGURE 1 : MDL Applications Dialog Box

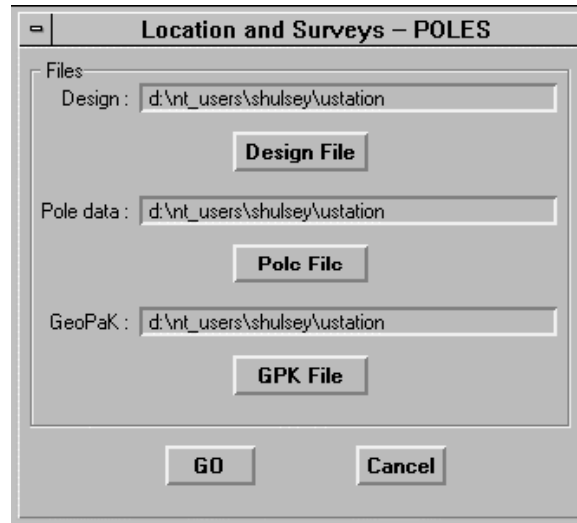


## MEET THE POLES APPLICATION

### The POLES Dialog Box

The POLES dialog box (see figure 2) is this application's primary dialog box. It is open as long as the application is running. It is moveable as are most other dialog boxes.

FIGURE 2 : POLES dialog box



The POLES dialog box consists of the following items:

#### Text items:

The DESIGN file is the name of the Photogrammetry's design file. This field can be filled in one of two ways. First, the user could simply type the name of the file, including the path. The other way is to use a MDL File Open interface by clicking on the **Design File** push button.

The POLE DATA file is the name of the Location's pole data file. To use a MDL File Open interface as above, clicking on the **Pole File** push button.

The GEOPAK file is the name of Roadway Design's ".GPK" file. Again, to use a MDL File Open interface, clicking on the **GPK File** push button.

Push Buttons: A Push Button activates a command or launches a dialog box by either clicking on it with the mouse or by entering the name of the button in the command line in the MicroStation Command Window or by tabbing to that push button and pressing **ENTER**.

The DESIGN FILE Push Button launches a dialog box, which will "pop up" onto the screen. This dialog box will allow the user to choose the input ".dgn" file through a standardized file menu interface.

The POLE FILE Push Button launches a dialog box, which will "pop up" onto the screen. This dialog box will allow the user to choose the input ".pdf" file through a standardized file menu interface.

The GPK FILE Push Button launches a dialog box, which will “pop up” onto the screen. This dialog box will allow the user to choose the input “.gpk” file through a standardized file menu interface.

The GO Push Button executes the POLES application.

The CANCEL Push Button is used to quit the program.

## RUNNING POLES

### From within MicroStation:

Before starting the application, the user should save settings and compress the current design file. Following the instructions on page one (1), the POLES application should be started and will soon appear on the screen. As previously mentioned, three input files are needed for the pole summary. The user should specify the input files using the procedures described in “MEET THE POLES APPLICATION.”

Once the input parameters have been specified, the user should continue the process by depressing the GO button. The program will then start to setup the scanning process. The input file will be (re)loaded and the search process will proceed. Again, the three input files are 1) a Photogrammetry topo design file, 2) a Location and Survey (L&S) pole file, and 3) a Roadway Design GEOPAK file. The L&S pole file gives the program the following information about the poles: number, owner, type, alignment and comment information. Using this pole information, the application searches Photogrammetry’s design file looking for the poles found in the pole file. From the design file, the program reads the following information: state plan coordinates and corrective pole type and classification. The GEOPAK file furnishes the station and offset for each pole. The program passes the state-plan coordinates and alignment information to the GEOPAK and receives back the station and offset for each pole. When the pole location process is completed, the program will produce an report file that contains the needed information. The report file will have the same filename and path as the pole data file, except the extension will be “.rpt” The information in the file will look similar to FIGURE 3.

**FIGURE 3 : Pole Report Example**

POLE DATA									
PROJECT: 9.804119		ID NO. U-2561			COUNTY: NASH			SHEET 1 OF 1	
OWNER OF POLE LINE: AT&T (C123)									
STATION	POLE NUMBER	DISTANCES FROM CENTER OF						REMARKS	
		PRESENT ROAD		PROJECT		PROJECT AFTER MOVING			
		LT	RT	LT	RT	LT	RT		
-L-									
10+93.03	83252		45						Combination
11+73.53	67898		86						
28+28.32	5766	52							
31+10.41	5767	56							
31+69.93	83256		118						
-Y1REV-									
13+20.31	67902		215						
14+33.52	83248		43						
14+59.82	67907		88						
14+97.71	67908	7							
-Y2-									
10+06.77	67909		11						
10+16.00	67906	5							

To conclude the process, unload poles.